

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	4	((("6249370") or ("6549694") or ("6639722") or ("6002154"))).PN.	USPAT; USOCR	OR	OFF	2008/01/16 19:15
S2	0	S1 and pzt	USPAT	OR	OFF	2008/01/16 19:15
S3	100745	actuator\$1 and ((height\$1 or position\$1) with (var\$4 or differ\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S4	101	wavefront adj pattern\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S5	1	S1 and (zirconate with titanate)	USPAT	OR	OFF	2008/01/16 19:15
S6	0	modulator and (insulat\$3 with layer\$1 with substrate\$1 with dissipat\$3 with heat\$3 with electrode\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S7	24512	actuator\$1 same ((height\$1 or position\$1) with (var\$4 or differ\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S8	17840	diffract\$3 with refract\$3	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S9	1	("6249370").PN.	USPAT; USOCR	OR	OFF	2008/01/16 19:15
S10	0	S9 and pzt	USPAT	OR	OFF	2008/01/16 19:15
S11	677	(first with order with diffraction with second) and "359"/\$.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S12	91	(insulat\$3 with layer\$1 with substrate\$1 with dissipat\$3 with heat\$3 with electrode\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S13	1	"20050046921"	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S14	1	S13 and pzt	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15

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S15	1	"20050046921"	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S16	0	S15 and (two with dimension\$2 with array\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S17	0	S15 and (two with dimension\$2)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S18	13915	actuator\$1 with ((height\$1 or position\$1) with (var\$4 or differ\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S19	647	actuator\$1 with (height\$1 with differ\$4)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S20	82	modulator\$1 and (benedicto)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S21	1	S9 and zirconate	USPAT	OR	OFF	2008/01/16 19:15
S22	447	actuator\$1 with (height\$1 with different)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S23	2699	(359/290,291,295,571).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S24	1245	diffract\$3 with refract\$3 with mirror\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S25	300	diffract\$4 with quarter with wavelength\$1	USPAT	OR	OFF	2008/01/16 19:15
S26	406	((first with order with diffraction with second) and "359"/\$.ccls.) and mirror\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S27	366	(actuator\$1 same electrode\$1 same (reflect\$3 or mirror\$1)) and (((359/290,291,295,571).CCLS.) or ((385/18).CCLS.))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15

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S28	366	(actuator\$1 same electrode\$1 same (reflect\$3 or mirror\$1)) and (((359/290,291,295,571).CCLS.) or ((385/18).CCLS.))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S29	0	(PZT or zirconate) with contract\$3 with expand\$3 with spatial	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S30	0	((PZT or zirconate) with contract\$3 with expand\$3) same spatial	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S31	1	"20050046921"	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S32	0	S31 and (individual\$2 with modulats\$3)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S33	2459	modulator\$1 same (individual\$5 with control\$4)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S34	99	(PZT or zirconate) with actuator with (contract\$3 or expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S35	1708	(385/18).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S36	4293	((359/290,291,295,571).CCLS.) or ((385/18).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S37	1984	(PZT or zirconate) with actuator	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S38	1	("6249370").PN.	USPAT; USOCR	OR	OFF	2008/01/16 19:15
S39	0	S38 and pzt	USPAT	OR	OFF	2008/01/16 19:15
S40	0	S38 and plzt	USPAT	OR	OFF	2008/01/16 19:15
S41	1255	modulator\$1 with individual\$5 with control\$4	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15

## EAST Search History

S42	89	modulator\$1 same (reflect\$3 with curve)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S43	293	(jack with dinh)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S44	63	(insulat\$3 with layer\$1) with substrate\$1 with dissipat\$3 with heat\$3 with electrode\$1	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S45	0	modulator and (insulat\$3 with layer\$1 with substrate\$1 with dissipat\$3 with heat\$3 with electrode\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S46	4293	((359/290,291,295,571).CCLS.) or ((385/18).CCLS.)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S47	1	S15 and (four with direction\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S48	1	S15 and (two)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S49	1	("6,549,694").PN.	USPAT; USOCR	OR	OFF	2008/01/16 19:15
S50	1	S13 and piston\$	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S51	1	S15 and (four)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S52	0	S15 and (dimension\$2)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S53	1	S13 and (insulating with layer\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S54	1	S43 and ((one with two with degree\$1).clm.)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S55	1	S31 and (individual\$2)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S56	1	("6856449").PN.	USPAT; USOCR	OR	OFF	2008/01/16 19:15
S57	13	((method or process) with (form\$3 or mak\$3) with (spatial with modulator\$1)).ti.	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S58	1	S31 and wavefront	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S59	1	S31 and wavefront\$1	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15

## EAST Search History

S60	12	((actuator\$1 or reflect\$3 or mirror\$1) with (height\$1 with different) with pattern\$1) and "359"/\$.cls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S61	33	((method or process) with (us\$3) with (spatial with modulator\$1)).ti.	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S62	33	actuator\$1 same ((height\$1 or position\$1) with (var\$4 or differ\$4)) same wavefront\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S63	46	(spatial adj (light\$1 or modulator\$1)) same actuator\$1 same electrode\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S64	35	(wavefront adj pattern\$1) and actuator\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S65	8	actuator\$1 with (height\$1 with different) with pattern\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S66	97	diffract\$3 with refract\$3 with mirror\$1 with wavelength\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S67	27	(diffract\$3 with refract\$3 with mirror\$1 with wavelength\$1) and "359"/\$.cls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S68	49	diffract\$4 with quarter with wavelength\$1 with mirror\$1	USPAT	OR	OFF	2008/01/16 19:15
S69	3	((("5735026") or ("5862002") or ("6059416"))).PN.	USPAT; USOCR	OR	OFF	2008/01/16 19:15
S70	45	(PZT or zirconate) with actuator with (contract\$3 with expand\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15

## EAST Search History

S71	7	((PZT or zirconate) with contract\$3 with expand\$3) same (modulator\$1)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S72	3	S33 and (jack with dinh)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S73	3	S41 and (jack with dinh)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S74	72	modulator\$1 and (jack with dinh)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S75	28	modulator\$1 with (reflect\$3 with curve)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S76	29	modulator\$1 with (curve\$1 adj mirror\$1)	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S77	21	(insulating adj layer\$1) with substrate\$1 with dissipat\$3 with heat\$3 with electrode\$1	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S78	51	S12 and @ad<="20030829"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S79	31	S44 and @ad<="20030829"	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S80	31	S12 and @ad<="20030829"	US-PGPUB; USPAT	OR	OFF	2008/01/16 19:15
S81	185	(actuator\$1 same electrode\$1 same (reflect\$3 or mirror\$1)) and 359/291.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S82	236	(actuator\$1 or reflect\$3 or mirror\$1) with (height\$1 with different) with pattern\$1	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15
S83	113	(359/323).CCLS.	USPAT; USOCR	OR	OFF	2008/01/16 19:27
S84	273	((first with order with diffraction with second) and "359"/\$.ccls.) and mirror\$1	USPAT	OR	OFF	2008/01/16 19:15
S85	1372	S46 and @pd>="20050701"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2008/01/16 19:15

## EAST Search History

S86	1507	(359/223,224).CCLS.	USPAT; USOCR	OR	OFF	2008/01/16 19:36
S87	470	(359/320,322,323).CCLS.	USPAT; USOCR	OR	OFF	2008/01/16 19:28

## INTERFERING EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	17230	(modulator\$1).clm.	US-PGPUB	OR	OFF	2008/01/16 19:39
L2	59	(modulator\$1 with wavefront\$1).clm.	US-PGPUB	OR	OFF	2008/01/16 19:39
L3	2	(modulator\$1 with wavefront\$1 with substrate\$1).clm.	US-PGPUB	OR	OFF	2008/01/16 19:39
L4	0	(modulator\$1 with wavefront\$1 with substrate\$1 with electrode\$1).clm.	US-PGPUB	OR	OFF	2008/01/16 19:39



**EAST Search Results Case No. 10/651,048**

US 5735026 A	USPAT	Method for the manufacture of an electrodisplacive actuator array	29/25.35
US 5862002 A	USPAT	Electrostrictive actuated mirror array and method for the manufacture thereof	359/846
US 20030138213 A1	US-PGPUB	Optical systems comprising curved MEMs mirrors and methods for making same	385/47
US 5493623 A	USPAT	PZT fiber optic modulator having a robust mounting and method of making same	385/12
US 6844920 B2	USPAT	Exposure device and method for compensating optical defects	355/67
US 6249370 B1	USPAT	Display device	359/291
US 6059416 A	USPAT	Actuated mirror array and method for the fabricating thereof	359/850
US 6856449 B2	USPAT	Ultra-high resolution light modulation control system and method	359/298
US 6512625 B2	USPAT	Light modulation device and system	359/290
US 6002154 A	USPAT	High-frequency MOSFET	257/349
US 6549694 B2	USPAT	Optical switching element, switching apparatus and image display apparatus using optical switching element	385/18
US 6535187 B1	USPAT	Method for using a spatial light modulator	345/84
US 6980197 B2	USPAT	Integrated driver for use in display systems having micromirrors	345/108
US 20050046921 A1	US-PGPUB	Spatial light modulator using an integrated circuit actuator and method of making and using same	359/291
US 6639722 B2	USPAT	Stress tuned blazed grating light valve	359/571
US 6747775 B2	USPAT	Detunable Fabry-Perot interferometer and an add/drop multiplexer using the same	359/238
US 6600591 B2	USPAT	Micromirror array having adjustable mirror angles	359/291
US 6665109 B2	USPAT	Compliant mechanism and method of forming same	359/290
US 5611941 A	USPAT	Method for forming a ferroelectric liquid crystal spatial light modulator utilizing a planarization process	216/23

NPL SEARCH HISTORY

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1	INZZ	modulat\$3 SAME wavefront\$1	unrestricted	760	show titles
2	INZZ	modulat\$3 SAME wavefront\$1 SAME actuator\$1 SAME electrode\$1	unrestricted	0	-

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- Classification codes A: Physics, 4-5
- Classification codes A: Physics, 6
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- Classification codes A: Physics, 9
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